Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

lame of Work: Improvements to roads and drains at Allalasandra and Construction of CC road at Sanitary core in ward no 04

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
Civil Work								
Removing & Refixing stone slabs of drains and pointing in C.M (1:3) (I No-5.33, P No27)								
Basic rate	105.00							
Area Weightage 6%	6.30							
Total	111.30							
	Sqm							
Desilt								
Allalasandra								
1st main, 1st Cross		2	84.00	0.75		126.00		
2nd Cross		2	86.00	0.75		129.00		
3rd Cross		2	88.00	0.75		132.00		
16th Cross		1	146.00	0.75		109.50		
3rd main		1	75.00	0.75		56.25		
2nd B main		2	58.00	0.75		87.00		
3rd AB main		2	33.00	0.75		49.50		
Cross road 1		1	23.00	0.75		17.25		
Cross road 2		1	33.00	0.75		24.75		
Cross road 3		1	32.00	0.75		24.00		
						755.25		
25% missing slabs						188.81		
						566.44		
Consider 40%						**226.58**	**111.30**	**25,217.80**
KSRRB 300-1. **Earthwork excavation by manual means** for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(I No-19.1, P No-143), 8km lead								
Basic rate	130.00							
Area Weightage 6%	7.80							
Loading and Unloding & Lead, 8KM	77.48							
Total	**215.28**							
	Cum							
Desilt								
Allalasandra								
1st main, 1st Cross		2	84.00	0.45	0.30	22.68		
2nd Cross		2	86.00	0.45	0.30	23.22		
3rd Cross		2	88.00	0.45	0.30	23.76		
16th Cross		1	146.00	0.45	0.30	19.71		
3rd main		1	75.00	0.45	0.30	10.13		
2nd B main		2	58.00	0.45	0.40	20.88		
3rd AB main		2	33.00	0.45	0.30	8.91		
Cross road 1		1	23.00	0.45	0.30	3.11		
Cross road 2		1	33.00	0.45	0.30	4.46		
Cross road 3		1	32.00	0.45	0.30	4.32		
RCC Drain								

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
Allalasandra								
Cross A		1	124.00	1.00	0.95	117.80		
Cross B		1	114.00	1.00	0.90	102.60		
						361.57	**215.28**	**77,837.71**

KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)

Basic rate	5115.00							
Area Weightage 6%	306.90							
Total	**5421.90**							
	Cum							
RCC Drain								
Allalasandra								
Cross A		1	124.00	1.00	0.15	18.60		
Cross B		1	114.00	1.00	0.15	17.10		
C.C Road								
Allalasandra								
Sanitary core road		1	57.00	3.10	0.15	26.51		
16th A cross		1	146.00	3.10	0.15	67.89		
3rd main		1	75.00	7.70	0.15	86.63		
3rd B main		1	57.00	3.10	0.15	26.51		
20th B cross		1	111.00	3.60	0.15	59.94		
19th B cross		1	62.00	2.80	0.15	26.04		
2nd B main		1	58.00	3.10	0.15	26.97		
Gowdru Angadi road		1	70.00	3.50	0.15	36.75		
3rd AB main		1	33.00	3.50	0.15	17.33		
Cross road 1		1	23.00	3.20	0.15	11.04		
Cross road 2		1	33.00	2.70	0.15	13.37		
Cross road 3		1	32.00	3.70	0.15	17.76		
1st B main		1	20.00	3.50	0.15	10.50		
1st main, 1st Cross		1	84.00	3.30	0.15	41.58		
1st main, 2nd Cross		1	86.00	3.10	0.15	39.99		
1st main, 3rd Cross		1	88.00	3.40	0.15	44.88		
						589.37	**5421.90**	**3195478.09**

4 Providing and laying plain/reinforced cement concrete for side drains using **M20 nominal mix concrete with OPC at 300 kgs.** With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)

Basic rate	6670.00							
Area Weightage 6%	400.20							
Total	**7070.20**							
	Cum							
RCC Drain								
Raft								
Allalasandra								

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
		1	124.00	0.80	0.15	14.88		
ss A		1	114.00	0.80	0.15	13.68		
ross B								
Vall								
llalasandra		2	124.00	0.15	0.60	22.32		
ross A		2	114.00	0.15	0.60	20.52		
ross B						71.40	7070.20	504812.28

KSRRB - M2300-14: **Providing TMT steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)

Basic rate	69804.00							
Area Weightage 6%	4188.24							
Total	73992.24							
	Tn							
RCC Drain								
For Drain 60kg/cum			71.40	0.060		4.28		
						4.28	73992.24	316982.76

Providing and Fixing **pre cast covering Slab 100mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)

Data rate	2337.00							
	Sqm							
RCC Drain								
Allalasandra								
missing/damged from item no. 01						188.81		
Allalasandra								
Cross A		1	124.00	0.75		93.00		
Cross B		1	114.00	0.75		85.50		
						367.31	2337.00	858409.31

7 Providing and fixing **RCC precast cover slab of 250mm thick** for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)

Data rate	5418.00							
	Sqm							
Culvert		2	6.00	1.20		14.40		
						14.40	5418.00	78,019.20

8 KSRRB M200-24. **Dismantling of cement concrete pavement** by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. Loading and unloading with 8km lead= (I No-18.47,P No-140,KPWD

Basic rate	899.00							
Area Weightage 6%	53.94							
8km Lead	20.48							
Total	973.42							
	Cum							

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
Road								
llalasandra								
anitary core road		1	57.00	3.10	0.25	44.18		
6th A cross		1	146.00	3.10	0.25	113.15		
rd main		1	75.00	7.70	0.25	144.38		
rd B main		1	57.00	3.10	0.25	44.18		
20th B cross		1	111.00	3.60	0.25	99.90		
19th B cross		1	62.00	2.80	0.25	43.40		
2nd B main		1	58.00	3.10	0.25	44.95		
Gowdru Angadi road		1	70.00	3.50	0.25	61.25		
3rd AB main		1	33.00	3.50	0.25	28.88		
Cross road 1		1	23.00	3.20	0.25	18.40		
Cross road 2		1	33.00	2.70	0.25	22.28		
Cross road 3		1	32.00	3.70	0.25	29.60		
1st B main		1	20.00	3.50	0.25	17.50		
1st main, 1st Cross		1	84.00	3.30	0.25	69.30		
1st main, 2nd Cross		1	86.00	3.10	0.25	66.65		
1st main, 3rd Cross		1	88.00	3.40	0.25	74.80		
						922.78	973.42	898247.64

Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound(P.No-176,I No-22.6.1)

Basic rate	4916.00							
Area Weightage 6%	294.96							
Total	5210.96							
	Cum							
C.C Road								
Allalasandra								
Sanitary core road		1	57.00	3.10	0.15	26.51		
16th A cross		1	146.00	3.10	0.15	67.89		
3rd main		1	75.00	7.70	0.15	86.63		
3rd B main		1	57.00	3.10	0.15	26.51		
20th B cross		1	111.00	3.60	0.15	59.94		
19th B cross		1	62.00	2.80	0.15	26.04		
2nd B main		1	58.00	3.10	0.15	26.97		
Gowdru Angadi road		1	70.00	3.50	0.15	36.75		
3rd AB main		1	33.00	3.50	0.15	17.33		
Cross road 1		1	23.00	3.20	0.15	11.04		
Cross road 2		1	33.00	2.70	0.15	13.37		
Cross road 3		1	32.00	3.70	0.15	17.76		
1st B main		1	20.00	3.50	0.15	10.50		
1st main, 1st Cross		1	84.00	3.30	0.15	41.58		
1st main, 2nd Cross		1	86.00	3.10	0.15	39.99		
1st main, 3rd Cross		1	88.00	3.40	0.15	44.88		

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
						553.67	5210.96	2885126.17
							Total Construction Cost	8840130.96
							Towards GST 12%	1060815.72
							PMC Charges 1%	98,000.00
							Sub Total	9998946.68
							Miscellaneous & Rounding Off	53.32
							Total	9999000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 02-07-2020 and Data Rates

Assistant Engineer
Ward 04
BBMP Bangalore

Asst. Executive Engineer
Yelahanka New Town Sub Division
BBMP Bangalore

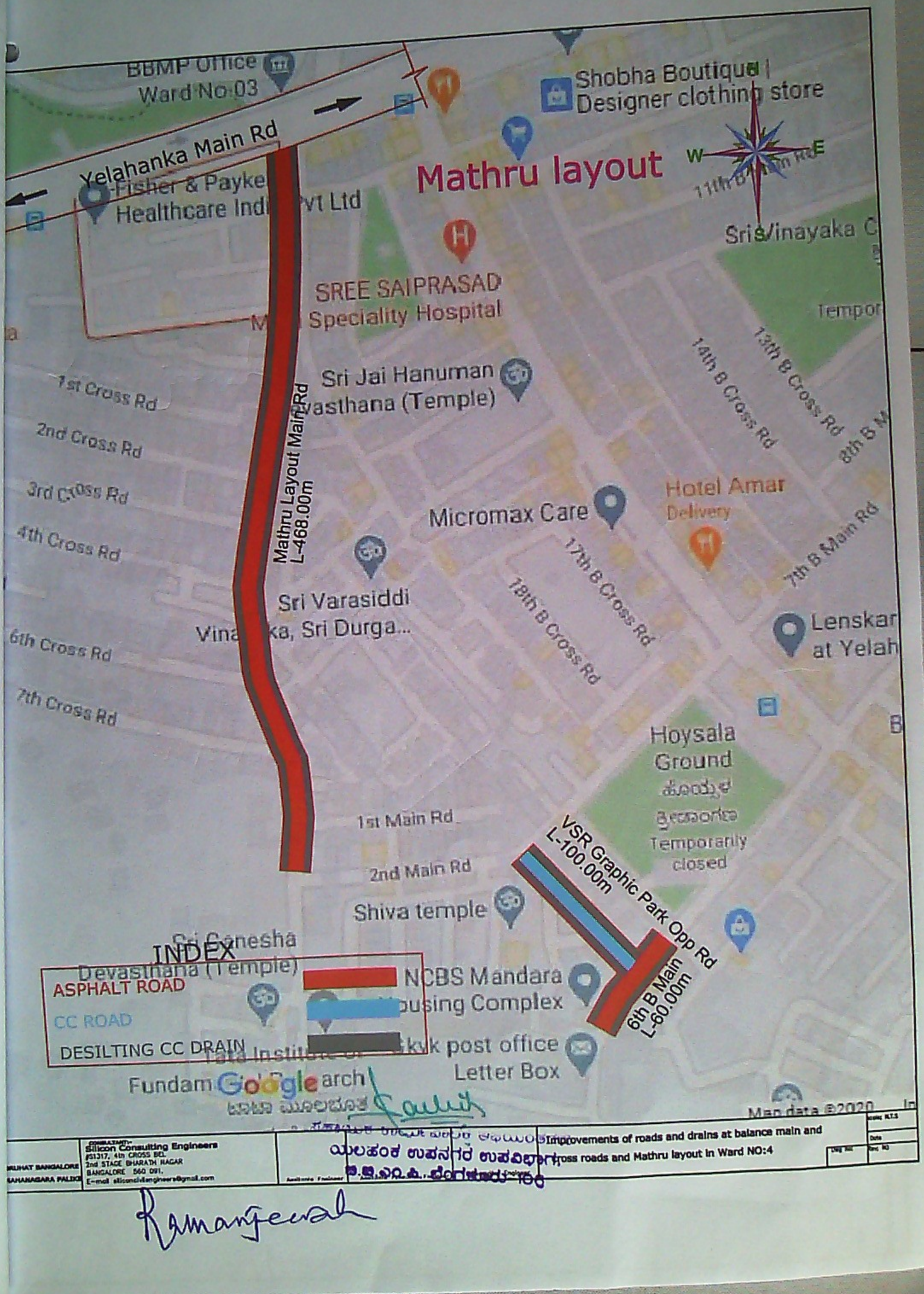
Executive Engineer
Yelahanka Division
BBMP Bangalore

Administrative Sanction for Rs. ...99.99...lakhs ...Ninety...Nine...Lakhs...Ninety...Nine... ...thousand only..... is accorded under head ...P-3768..... ...2020-21.....Special.....development..... .....works..... Registered as CE No. ..... Subject to conditions contained in enclosed memo No. E.E/YNK/AS/28/2020-21....Dt. 18.8.2020

Executive Engineer

Technical Sanction
Accorded For R 999.99 lakhs only
Head of A/C P 3768
CER NO : 103 Dt: 28/8/2020

TA I CE (YNK)



GREATER BANGALORE MAHANAGARA PALIKE

Silicon Consulting Engineers
#31317, 4th CROSS BEL
2nd STAGE BHARATH NAGAR
BANGALORE 560 091.
E-mail siliconcivilengineers@gmail.com

Improvements of roads and drains at balance main and cross roads and Mathru layout in Ward NO:4

Scale: N.T.S
Date
Dwg No

Sharada layout and Mathru layout

CLIENT: BRUHAT BANGALORE MAHANAGARA PALIKE	CONSULTANT:- **Silicon Consulting Engineers** #S1317, 4th CROSS BEL 2nd STAGE BHARATH NAGAR BANGALORE 560 091. E-mail siliconcivilengineers@gmail.com	Assitante Engineer	Assitante Executive Engineer	Executive Engineer	Improvements of roads and drains at balance main and cross roads and Mathru layout in Ward NO:4 Dwg no: Rev; R0

ಸಹಾಯಕ ಅಭಿಯಂತರರ ಕಛೇರಿಯಿಂದ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬ.ಜ.ಎಂ.ಪಾ. ಬೆಂಗಳೂರು-೧೮